











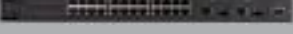



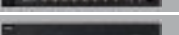










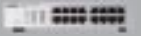



**ZyXEL**  
**LAN Switches**  
Quick Sales Guide

2009



# LAN Switches Quick Finder

Core Switch —Modular	7000 Series	Gigabit Ethernet	MS-7206	
Distribution Switch —Managed	4500 Series	Gigabit Ethernet	XGS-4528F	
Access Switch— Managed	4000 Series	Gigabit Ethernet	GS-4024	
		Fast Ethernet	ES-4124	
	3000 Series	Fast Ethernet	ES-3124	
			ES-3124PWR	
			ES-3148	
	2200 Series	Gigabit Ethernet	GS-2228	
	2000 Series	Gigabit Ethernet	GS-2024	
		Fast Ethernet	ES-2024A	
			ES-2024PWR	
			ES-2048	
			ES-2108	
			ES-2108-F	
			ES-2108-G	
			ES-2108PWR	
Access Switch— Web Managed	1500 Series	Gigabit Ethernet	GS-1524	
			GS-1528PWR	
			GS-1548	
		Fast Ethernet	ES-1528	
		Fast Ethernet	ES-1552	
Access Switch— Unmanaged	1000 Series	Gigabit Ethernet	GS-1124B	
		Fast Ethernet	ES-1016B	
			ES-1024B	
			ES-1124	
	100 Series	Fast Ethernet	ES-116P	
			ES-124P	

Model Name	Ports	Key Features	Competitive Product
MS-7206	Up to 192 1000Base-T ports 192 1000Base-T ports with PoE 96 1000Base-T SFP 32 10G XFP	• Unparalleled Performance and Scalability • High Availability and Resiliency • Secure Connectivity • Guaranteed Quality of Service for Different Applications • Low Total Cost of Ownership	• Cisco Catalyst 4500 Series • HP Procurve 5400zl Series • 3Com Switch 5500 Series
XGS-4528F	24 dual personality GbE ports 2 12G stacking port 1 optional 2-port 10G module	• Built-in 12G stacking ports eliminate hidden cost on network expansion • True wire-speed L3 switching for high-performance networks • Two 10 Gigabit uplink ports expand bandwidth 10 times to speed up the traffic transportation • 2K/16K MAC entries, 8K L3 Host and 512/12K L3 Route	• 3Com Switch 4500G • Cisco Catalyst 2960 • HP Procurve 2800/2900 Series
GS-4024	20-port 1000Base-T 4 dual personality GbE ports	• High-Performance wire-speed switching and IP routing • Advanced QoS for significant services • High-security for business-critical applications • L3 IP Routing RIP and OSPF support • Multicast DVMRP and IGMP support • High redundancy and resilience architecture with RSTP, VRRP and Port Trunking	• 3Com Switch 4200G • Cisco Catalyst Express 500 • HP Procurve 2810 Series
ES-4124	24-port 10/100Base-TX 2-port 1000Base-T 2 dual personality GbE ports	• Empowering Converged Network for SME • Secure Multi-Service Delivery Quality • Enhanced Multi-layer Security Protection • Advanced routing protocol (OSPF, RIP, VRRP and DVMRP)	• 3Com Switch 4500G • Cisco Catalyst 2960 • HP Procurve 2610 Series
ES-3124	24-port 10/100Base-TX 2-port 1000Base-T 2 dual personality GbE ports	• Easy ETTx deployments • Robust High-Availability system design • Secured service-level IP TV and VoIP operations	• 3Com Switch 4500 • Cisco Catalyst 2960 • HP Procurve 2610 Series
ES-3124PWR	24-port 10/100Base-TX PoE 2-port 1000Base-T 2 dual personality GbE ports	• Strengthened service management and control • IEEE 802.1s MSTP and IEEE 802.1w RSTP enable fast recovery networks • Backup Power System (BPS) extends network up time • Policy-based QoS empowered by (L2/L3/L4) ACL, 8 priority queues, WRR/SPQ and DSCP	• 3Com Switch 4500 • Cisco Catalyst 2960 • HP Procurve 2610 Series
ES-3148	48-port 10/100Base-TX 2-port 1000Base-T 2 dual personality GbE ports	• 256 Static VLAN and 4 K PVID benefit VLAN management • VLAN Stacking (Q-in-Q) support for L2VPN • Remote management via IEEE 802.3ah (OAM)	• 3Com Switch 4500 • Cisco Catalyst 2960 • HP Procurve 2610 Series
GS-2228	24-port 1000Base-T 4 dual personality GbE ports	• 12.8 Gbps non-blocking switching capability • 16K layer 2 MAC addresses table; 448 KB packet buffer • Overheat detection	• 3com Baseline 2924 • HP ProCurve 2810
GS-2024	22-port 1000Base-T 2 dual personality GbE ports	• 48 Gbps non-blocking switch fabric • Supports IEEE 802.1p which classes and prioritizes network • Supports specific MAC addresses forwarding per port support IEEE 802.1x port authentication	• 3Com Switch 29xx Series • Cisco Catalyst Express 5xx Series • HP Procurve 2510G Series
ES-2024A	24-port 10/100Base-TX 2 dual personality GbE ports	• 8.8 Gbps/13.6 Gbps non-blocking switching fabric • Port-based and 802.1Q-tagged VLAN (4K PVID) • MAC filtering, freeze and specific MAC forwarding • Port security and port isolation	• 3Com Switch 42xx Series • Cisco Catalyst Express 5xx Series • HP Procurve 2510 Series
ES-2024PWR	24-port 10/100Base-TX PoE 2 dual personality GbE ports	• 802.1x Port-based authentication for centralized management • IEEE 802.1p with eight priority queues • WFQ, bandwidth guaranteed scheduling algorithm • MVR and IGMP snooping for IP multicasting optimization	• 3Com Switch 42xx Series • Cisco Catalyst Express 5xx Series • HP Procurve 2510 Series
ES-2048	48-port 10/100Base-TX 2 dual personality GbE ports	• iStacking™ Clustering technology allowing one IP to manage 24 devices • Flexible installation empowered by Power over Ethernet • Easy Web GUI for intelligent PoE management	• 3Com Switch 4400 Series • HP Procurve 2650 Series
ES-2108	8-port 10/100Base-TX	• 5.6 Gbps non-blocking switching capability • Fan-less hardware design (ES-2108/ES-2108-G/ES-2108-F)	• Cisco 2940-8TT • 3Com OfficeConnect Managed Switch 9
ES-2108-F	8-port 10/100Base-TX 1 SFP open slot (FE)	• Traffic prioritizing of Intelligent QoS and bandwidth increment of 64 Kbps optimize service quality of application and utilization of bandwidth	
ES-2108-G	8-port 10/100Base-TX 1 dual personality GbE ports	• MVR enables IP multicasting applications across multiple VLANs environments • Against unauthorized access by protection of 802.1x, VLAN (4K PVID), MAC filtering/forwarding and MAC freeze. In addition, Intrusion lock can block the penetration attack	• Cisco 2940-8TF • 3Com OfficeConnet Managed Swith 9 FX
ES-2108PWR	8-port 10/100Base-TX PoE 1 dual personality GbE ports	• ES-2108PWR supports full power for 8 port PoE simultaneously (15.4 W x 8) • ES-2108-F support 100BASE-X trasnsceivers (100FX/LX/BX) ease fiber network deployment	• 3Com OfficeConnet Managed Swith 9 FX
GS-1524	20-port 1000Base-T 4 dual personality GbE ports		• 3Com Baseline Switch • HP Procurve 1800 Series • D-Link DGS 1224T
GS-1528PWR	4 dual personality GbE ports	• Robust system design • Web-managed interface enables simplified configuration • Revolutionary new smart power	
GS-1548	44-port 1000Base-T 4 dual personality GbE ports	• Auto DoS attack prevention • Auto VoIP optimization • 12.8/17.6 Gbps non-blocking switching fabric for ES-1528/52 • 48/96 Gbps non-blocking switching fabric for GS-1524/48	• HP ProCurve 1800-24G
ES-1528	24-port 10/100Base-TX 2-port 1000Base-T 2 SFP open slot (GbE)	• Flexible 4 GbE uplink interfaces • IEEE 802.3ad Static Port Aggregation streamlined Web-based interface IEEE 802.1Q VLAN • Port security • IEEE 802.1p with 4 priority queues WRR and SPQ queuing algorithms	• 3Com Baseline Switch • HP Procurve 1700 Series • Netgear FS-728 • D-Link DES-1228
ES-1552	48-port 10/100Base-TX 2-port 1000Base-T 2 SFP open slot (GbE)		• 3Com Baseline Switch • HP Procurve 1700 Series • Netgear FS-752, D-Link DES-1252
GS-1124B	24-port 1000Base-T	• 48 Gbps non-blocking switching fabric; 38.7Mpps forwarding rate • 8K MAC address table	
ES-1016B	16-port 10/100Base-TX		• 3Com Baseline Switch • HP Procurve 1800 Series • D-Link DGS 1248T
ES-1024B	24-port 10/100Base-TX	• Non-blocking full wire speed forwarding • Data flow control for better transmission reliability • Forwards and filters packets at non-blocking, full wire-speed • Auto MDI/MDI-X support	• 3Com Baseline Switch • HP Procurve Switch 408/2124 • Linksys EF3124
ES-1124	24-port 10/100Base-TX 2 dual personality GbE ports		• HP Procurve Switch 408/2124
ES-116P	16-port 10/100Base-TX	• 4.8/3.2 Gbps non-blocking switching fabric; 3.2/2.4 Mpps forwarding rate • 1K MAC address table	• Netgear JFS516 • D-Link DSS-16+
ES-124P	24-port 10/100Base-TX	• Suitable for desktop and rack-mount installation	• Netgear JFS524 • D-Link DES-1024D



# LAN Switches Feature Matrix

Model Name	Switch 7000 Series		
	MS-7206		
System Capacity	<ul style="list-style-type: none"><li>Switch Fabric Slot: 2</li><li>I/O Module Slot: 4</li><li>Power Supply Unit Slot: 2</li><li>Fan Module Slot: 1</li></ul>		
Performance	<ul style="list-style-type: none"><li>Switching Fabric: 384 Gbps</li><li>Forwarding Rate: 285 Mbps</li></ul>		
Max Port Density	<ul style="list-style-type: none"><li>1000BASE-T: 192</li><li>1000BASE-T with PoE: 192 (4 x MI-7248PWR)</li><li>1000 SFP: 96</li><li>10G: 32 (4 x MI-7308 + 8 EM-412/EM-422)</li></ul>		
Resilience and Availability	<ul style="list-style-type: none"><li>IEEE 802.1D STP/802.1w RSTP/802.1s MSTP</li><li>Redundant Power supply support</li><li>IEEE 802.3ad LACP(max # trunks/links per trunk): 6/8</li><li>Switch Fabric High Availability</li><li>VRRP</li><li>MRSTP</li><li>Dual Configuration Files</li><li>Swappable Fan module</li></ul>		
Traffic Control	<ul style="list-style-type: none"><li>256 static VLAN up to 4K dynamic VLAN</li><li>802.1ad VLAN Stacking (QinQ)</li><li>BPDU Transparency</li><li>GVRP</li><li>VLAN Trunking</li></ul>		
Security	<ul style="list-style-type: none"><li>802.1x</li><li>Intrusion Lock</li><li>MAC Filtering</li></ul>	<ul style="list-style-type: none"><li>MAC Freeze</li><li>Port Isolation</li><li>Port Security</li></ul>	<ul style="list-style-type: none"><li>SSH v1/v2</li><li>SSL</li><li>Static MAC Forwarding</li><li>ACL (L2/L3/L4) Security Filtering</li></ul>
Management	<ul style="list-style-type: none"><li>iStacking</li><li>Web Interface</li><li>CLI</li><li>Syslog</li><li>Daylight Saving</li></ul>	<ul style="list-style-type: none"><li>RMON (1, 2, 3, 9)</li><li>Port Mirroring</li><li>NTP</li><li>DHCP Relay per VLAN</li><li>RJ-45 Out-of-band Management Port</li></ul>	<ul style="list-style-type: none"><li>DHCP Option 82</li><li>DHCP Client (Management)</li><li>RS-232 Out-of-band Console Port</li><li>SNMP v1, v2c</li><li>802.3af PoE Support</li><li>Jumbo Frame Support on Gigabit ports</li></ul>
Dimensions (W x D x H mm)	435 x 316 x 447		
Power Consumption (Watt)	583		
Module	MM-7201	Management Switching Fabric Module	
	MI-7248	48-port 100/1000BASE-T (RJ-45) I/O Module	
	MI-7248TF	48-port (24 RJ-45 and 24 SFP Slot) GbE Ports I/O Module	
	MI-7248PWR	48-port 100/1000BASE-T (RJ-45) I/O Module with PoE (Full Power)	
	MI-7308	4-port XFP and 2 Expansion Slot (EM-412/EM-422) I/O Modules	
Module (Power Supply)	MP-7201	600 W Power Supply Module	
	MP-7202	750 W External PoE Power Souring Device	

Model Name	Switch 4500 Series	Switch 4000 Series		Switch 3000 Series		
	XGS-4528F	GS-4024	ES-4124	ES-3124	ES-3124PWR	ES-3148
Port Density						
10/100Base-TX, RJ-45 Ports			24	24		48
10/100Base-TX PoE					24	
1000Base-T, RJ-45 Ports		20	2	2	2	2
Dual Personality GbE Ports	24	4	2	2	2	2
10G Extend Slot	1					
12G Stacking Port	2					
Performance						
Switching Capacity	144 Gbps	48 Gbps	12.8 Gbps	12.8 Gbps	12.8 Gbps	17 Gbps
Switching Forwarding Rate	100 Mpps	35.7 Mpps	9.6 Mpps	9.6 Mpps	9.6 Mpps	13.1 Mpps
Packet Buffer	768 K	2 MB	32 MB	32 MB	32 MB	32 MB
MAC Address	8 K	16 K	16 K	16 K	16 K	16 K
Reliance and Availability						
STP/RSTP/MSTP	Yes	Yes	Yes	Yes	Yes	Yes
Dual Configuration Files	Yes	Yes	Yes	Yes	Yes	Yes
IEEE 802.3ad LACP	Yes	Yes	Yes	Yes	Yes	Yes
Redundant Power Supply Support	Yes	Yes	Yes	Yes	Yes	Yes
MRSTP	Yes	Yes	Yes	Yes	Yes	Yes
VPRP		Yes	Yes			
Loop Guard	Yes	Yes	Yes	Yes	Yes	Yes
Traffic Control						
All Series Support	• Static VLAN/ Dynamic VLAN	• 802.1ad VLAN Stacking (QinQ)	• BPDU Transparency	• 802.1Q Port Base VLAN	• IP Subnet Based VLAN	• VLAN Trunking • GVRP
Security						
All Series Support	• 802.1x • Port Security • MAC Filtering • MAC Freeze	• SSHv1v2 • SSL • Intrusion Lock • Static MAC Forwarding		• MAC Authentication • Port Isolation • IP Source Guard • ACL (L2/L3/L4) Security Filtering		
Management						
All Series Support	• CLI • iStacking • RMON (1, 2, 3, 9) • SNMP v1, v2c, v3 • Daylight Saving • NTP	• SNMP Trap Group • DHCP Option 82 • Port Mirroring • Web Interface • Syslog • TACACS+ Accounting		• TACACS+ Authentication • DHCP Relay per VLAN • RADIUS Accounting • RS-232 Out-of band Console Port • 802.3ah OAM • Jumbo Frame Support on Gigabit ports • RJ-45 Out-of-band Management Port		
Environmental Specification						
Dimensions (W x D x H mm)	438 x 310 x 44.45	438 x 300 x 44.45	438 x 225 x 44.45	438 x 270 x 44.45	438 x 420 x 44.45	438 x 300 x 44.45
Power Consumption (Watt)	62.8	53.8	30.3	28.7	437	39.7



Model Name	Switch 2000 Series							
	GS-2024	ES-2048	ES-2024A	ES-2024PWR	ES-2108	ES-2108-F	ES-2108-G	ES-2108PWR
Port Density								
10/100Base-TX, RJ-45 Ports		48	24		8	8	8	
10/100Base-TX PoE				24				8
1000Base-T, RJ-45 Ports	22							
FE Open SFP Slot						1		
Dual Personality GbE Ports	2	2	2	2			1	1
Performance								
Switching Capacity	48 Gbps	13.6 Gbps	8.8 Gbps	8.8 Gbps	1.6 Gbps	1.8 Gbps	3.6 Gbps	3.6 Gbps
Switching Forwarding Rate	35.7 Mpps	10.1 Mpps	6.6 Mpps	6.6 Mpps	1.2 Mpps	1.4 Mpps	2.7 Mpps	2.7 Mpps
Packet Buffer	512 K	32 Mb	256 K	256 K	256 K	256 K	256 K	256 K
MAC Address	8 K	16 K	8 K	8 K	8 K	8 K	8 K	8 K
Reliance and Availability								
STP/RSTP/MSTP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual Configuration Files	Yes	Yes						
IEEE 802.3ad LACP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loop Guard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Traffic Control								
Static VLAN/ Dynamic VLAN	256/4 K	256/4 K	256/4 K	256/4 K	256/4 K	256/4 K	256/4 K	256/4 K
8021.Q Port base VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Trunking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GVRP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
MAC Authentication		Yes						
IP Source Guard		Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL (L2/L3/L4) Security Filtering		Yes	Static IP/MAC Binding	Static IP/MAC Binding	Static IP/MAC Binding	Static IP/MAC Binding	Static IP/MAC Binding	Static IP/MAC Binding
All Series Support	• 802.1x	• Port Security	• MAC Filtering	• MAC freeze	• SSHv1v2	• Intrusion Lock	• SSL	• Static MAC Forwarding
Management								
RJ-45 Out-of-band Management Port		Yes						
All Series Support	• CLI • Web Interface • RMON (1, 2, 3, 9)	• Daylight Saving • DHCP Option 82	• SNMP Trap Group • SNMP v1, v2c, v3	• NTP • Port Mirroring	• iStacking • Syslog	• TACACS+ Accounting • DHCP Client (Management)	• RADIUS Accounting • TACACS+ Authentication	• DHCP Aelay per VLAN • RS-232 Out-of-band Console Port
Environmental Specification								
Dimensions (W x D x H mm)	438 x 300 x 44.45	438 x 300 x 44.45	438 x 173 x 44.45	438 x 173 x 44.45	250 x 133 x 37	250 x 133 x 37	250 x 133 x 37	250 x 133 x 37
Power Consumption (Watt)	20.9	40	14.1	171.9	7.8	7.4	7.8	132.1

Model Name	Switch 2200 Series
	GS-2228
Port Density	
1000Base-T, RJ-45 Ports	24
Dual personality GbE Ports	4
Performance	
Switching Capacity	56 Gbps
Packet Buffer	3.5
MAC Address	16 K
Reliance and Availability	
STP/RSTP/MSTP	Yes
IEEE 802.3ad LACP	Yes
Traffic Control	
Static VLAN/Dynamic VLAN	256/4 K
8021.Q Port base VLAN	Yes
VLAN Trunking	Yes
Security	
• 802.1x • Port Security • MAC Filtering • Static MAC Forwarding • SSH v1/v2 • SSL • ACL (L2/L3/L4) Security Filtering • Port Isolation	
Management	
• iStacking • Web Interface • CLI • DHCP Client • NTP • Port Mirroring • RS-232 Out-of-band Console Port • SNMP Trap Group • RMON (1, 2, 3, 9) • Jumbo Frame Support on Gigabit Ports	






Model Name	Switch 1500 Series				
	GS-1524	GS-1528PWR	GS-1548	ES-1528	ES-1552
Port Density					
10/100Base-TX				24	48
1000Base-T	20		44	2	2
1000Base-TX PoE		24			
Open SFP Slot (GbE)				2	2
Dual personality GbE Ports	4	4	4		
Performance					
Switching Capacity	48 Gbps	56 Gbps	96 Gbps	12.8 Gbps	17.6 Gbps
Switching Forwarding Rate	35.7 Mpps	3.5 Mpps	71.4 Mpps	9.6 Mpps	13.1 Mpps
Packet Buffer	512 K		512 K	512 K	512 K
MAC Address	8 K	16 K	8 K	8 K	8 K
Reliance and Availability					
IEEE 802.3ad LACP	6/8 (Static only)	6/8 (Static only)	6/8 (Static only)	6/8 (Static only)	6/8 (Static only)
Traffic Control					
Static VLAN/Dynamic VLAN	256/4 K	256/4 K	256/4 K	256/4 K	256/4 K
Security					
Static MAC Forwarding	Yes	Yes	Yes	Yes	Yes
Auto DoS Attack Prevention	Yes		Yes	Yes	Yes
Classic of Service (CoS)					
802.1p Class of Service	Yes	Yes	Yes	Yes	Yes
Device Management					
All Series Support	Web Interface, Port Mirroring Reset Button (Hardware)				
Management					
SNMP v1, v2c, v3	Yes	Yes	Yes	v1, v2c	v1, v2c
RMON (1, 2, 3, 9)	RMON_Lite	RMON_Lite	RMON_Lite	RMON_Lite	RMON_Lite
syslog	Yes	Yes	Yes	Yes	Yes
Dynamic ARP	Yes	Yes	Yes	Yes	Yes
Misc					
Jumbo Frame Support on Gigabit Ports	Yes		Yes		
Environmental Specification					
Dimensions (W x D x H mm)	438 x 215 x 44.45	438 x 173 x 44.45	441 x 195 x 44.45	441 x 130 x 44.45	441 x 195 x 44.45
Power Consumption (Watt)	41.1	395	80.1	12	51

Model Name	Switch 1000 Series			
	GS-1124B	ES-1124	ES-1024B	ES-1016B
Port Density				
10/100Base-TX		24	24	16
1000Base-T	24			
Dual Personality GbE Port		2		
Performance				
Auto MDI/MDI-X		Yes	Yes	Yes
Switching Capacity	48 Gbps	8.8 Gbps	4.8 Gbps	3.2 Gbps
Switching Forwarding Rate	38.7 Mpps	6.6 Mpps	3.6 Mpps	2.4 Mpps
Packet Buffer		2.5 Mb	1.25 Mb	1.25 Mb
MAC Address	8 K	8 K	8 K	8 K
802.1p CoS	Yes			
Broadcast Storm Control	Yes		Yes	Yes
VLAN Packet Pass Through	Yes	Yes	Yes	Yes
Environmental Specification				
Dimensions (W x D x H mm)	438 x 130 x 44.45	438 x 161 x 44.45	438 x 130 x 44.45	438 x 130 x 44.45


Model Name	Switch 100 Series	
	ES-116P	ES-124P
Port Density		
10/100Base-TX	16	24
Performance		
Auto MDI/MDI-X	Yes	Yes
Switching Capacity	4.8 Gbps	3.2 Gbps
Switching Forwarding Rate	3.2 Mpps	2.4 Mpps
Packet Buffer	1.25 Mbit	1.25 Mbit
MAC Address	1 K	1 K
Broadcast Storm Control	Yes	Yes
VLAN Packet Pass Through	Yes	Yes
Environmental Specification		
Dimensions (W x D x H mm)	215 x 133 x 42	267 x 152.5 x 42
Power Consumption (Watt)	6.44	7.26

# Accessories

## 10Gb Fiber Module

**EM-412**


- 2-slot CX4 10Gb
- Extended 10Gbe module of MI-7308/XGS-4528F

**EM-422**


- 2-slot XFP 10Gb Fiber module
- Extended 10Gbe module of MI-7308/XGS-4528F (Requires purchase of 10Gb XFP transceivers)

## Media Converter

**MC1000-SFP-FP**


- 100/1000Base-T RJ-45 to Gigabit Fiber
- Fiber Protection Mechanism
- 1 mini-GBIC SFP slot for flexible choice of SFP
- Multimode and singlemode supported
- Up to 80 km reach (depends on mini-GBIC SFP)
- Max. power consumption: 9.6 watt
- Dimensions: 194 (W) x 129 (D) x 25 (H) mm

**MC100FX-SC30-A**


- 10/100Base-TX RJ-45 to 100FX Singlemode
- For use with singlemode Fiber, SC connector
- Up to 30 km reach
- Max. power consumption: 2.4 watt
- Dimensions: 74 (W) x 110 (D) x 24 (H) mm

**MC100FX-SC2-A**



- 10/100Base-TX RJ-45 to 100FX Multimode
- For use with multimode Fiber, SC connector
- Up to 2 km reach
- Max. power consumption: 2.4 watt
- Dimensions: 74 (W) x 110 (D) x 24 (H) mm

## PoE Injector

**POE-12**


- IEEE 802.3af 15.4 watt PoE Injector
- Fanless design, noiseless
- Max. power consumption: 17.3 watt

## Backup Power System

**BPS-120**


- Up to 6 switches from the 4000/3000 series can be connected to one BPS-120
- Provides power to one switch without traffic or user interruption or switch rebooting in the event of a switch internal power supply failure
- Temperature, power and fan speed monitoring
- Max. power consumption: 180 watt/613 BTU/hr
- Dimensions: 440 (W) x 270 (D) x 44.45 (H) mm

## SFP Transceiver

Speed	Model	Type	Distance
10-Gigabit XFP Transceivers	FTLX1411D3 (XFP-SR)	SC connector	Singlemode, up to 300 m reach
	FTLX8511D3 (XFP-LR)	SC connector	Singlemode, up to 10 km reach
Gigabit SFP Transceivers	SFP-1000T	RJ-45 connector	Up to 100 M Using standard Ethernet cable
	SFP-SX	LC connector	Multimode, up to 220 m reach (62.5um)/up to 550 m reach (50 um)
	SFP-LX-10	LC connector	Multimode, up to 550 m reach; Singlemode, up to 10 km reach
	SFP-BX-1310-10	LC connector	Bidirectional Singlemode, up to 10 km reach
	SFP-BX-1490-10	LC connector	Bidirectional Singlemode, up to 10 km reach
	SFP-LHX1310-40	LC connector	Singlemode, up to 40 km reach
	SFP-BX1310-40	LC connector	Bidirectional Singlemode, up to 40 km reach
	SFP-BX-1490-40	LC connector	Bidirectional Singlemode, up to 40 km reach
	SFP-BX1310-60	LC connector	Bidirectional Singlemode, up to 60 km reach
	SFP-BX-1490-60	LC connector	Bidirectional Singlemode, up to 60 km reach
	SFP-ZX-80	LC connector	Singlemode, up to 80 km reach
Fast Ethernet SFP Transceivers	SFP-100FX-2	LC connector	Multimode, up to 550 m reach
	SFP-100TX	RJ-45 connector	Up to 100 m reach using standard Ethernet Cable
	SFP-100LX-20	LC connector	Multimode, up to 550 m reach
	SFP-100BX1310-20	LC connector	Bidirectional Singlemode, up to 10 km reach
	SFP-100BX1550-20	LC connector	Bidirectional Singlemode, up to 10 km reach

IMPORTANT: Bi-directional SFP must be used in pairs (Example: 1x SFP-BX1310-10 and 1x SFP-BX1490-10 connected together is a solution)



## Corporate Headquarters

### ZyXEL Communications Corp.

Tel: +886-3-578-3942  
Fax: +886-3-578-2439  
Email: sales@zyxel.com.tw  
<http://www.zyxel.com>

### ZyXEL Malaysia

Tel: +603-8076-9933  
Fax: +603-8076-9833  
Email: info@zyxel.com.my  
<http://www.zyxel.com.my>

### ZyXEL Pakistan

Tel: +92 21 4310194-5  
Fax: +92 21 4310196  
Email: info@zyxel.com.pk  
<http://www.zyxel.com.pk>

### ZyXEL Singapore

Tel: +65-6899-6678  
Fax: +65-6899-8887  
Email: sales@zyxel.com.sg  
<http://www.zyxel.com.sg>

### ZyXEL Taiwan (Taipei)

Tel: +886-2-2739-9889  
Fax: +886-2-2735-3220  
Email: sales\_tw@zyxel.com.tw  
<http://www.zyxel.com.tw>

### ZyXEL Thailand

Tel: +66-(0)-2831-5315  
Fax: +66-(0)-2831-5395  
Email: info@zyxel.co.th  
<http://www.zyxel.co.th>

## ■ Asia

### ZyXEL China (Beijing)

Tel: +86-010-82800646  
Fax: +86-010-82800587  
Email: sales@zyxel.cn  
<http://www.zyxel.cn>

### ZyXEL China (Shanghai)

Tel: +86-021-61199055  
Fax: +86-021-52069033  
Email: sales@zyxel.cn  
<http://www.zyxel.cn>

### ZyXEL China (Wuxi)

Tel: +86-510-88080888  
Fax: +86-510-85222670  
Email: info@zyxel.cn  
<http://www.zyxel.cn>

### ZyXEL India

Tel: +91-11-3088-8144  
Fax: +91-11-3088-8149  
Email: support@zyxel.in  
<http://www.zyxel.in>

### ZyXEL Kazakhstan

Tel: +7-727-2-590-699  
Fax: +7-727-2-590-689  
Email: info@zyxel.kz  
<http://www.zyxel.kz>

## ■ Europe

### ZyXEL Belarus

Tel: +375 17 334 6099  
Fax: +375 17 334 5899  
Email: sales@zyxel.by  
<http://www.zyxel.by>

### ZyXEL BeNeLux

Tel: +31 23 5553689  
Fax: +31 23 5578492  
Email: sales@zyxel.nl  
<http://www.zyxel.nl>

### ZyXEL Czech

Tel: +420 241 091 350  
Fax: +420 241 091 359  
Email: info@cz.zyxel.com  
<http://www.zyxel.cz>

### ZyXEL Denmark A/S

**Nordic Headquarters**  
Tel: +45 39 55 07 00  
Fax: +45 39 55 07 07  
Email: sales@zyxel.dk  
<http://www.zyxel.dk>

### ZyXEL Finland Oy

Tel: +358-9-4780 8400  
Fax: +358-9-4780 8448  
Email: sales@zyxel.fi  
<http://www.zyxel.fi>

### ZyXEL France SARL

Tel: +33 (0)4 72 52 97 97  
Fax: +33 (0)4 72 52 19 20  
Email: info@zyxel.fr  
<http://www.zyxel.fr>

### ZyXEL Germany GmbH

Tel: +49 (0) 2405-6909 0  
Fax: +49 (0) 2405-6909 99  
Email: sales@zyxel.de  
<http://www.zyxel.de>

### ZyXEL Hungary

Tel: +36-1-336-1646  
Fax: +36-1-325-9100  
Email: info@zyxel.hu  
<http://www.zyxel.hu>

### ZyXEL Norway A/S

Tel: +47 22 80 61 80  
Fax: +47 22 80 61 81  
Email: sales@zyxel.no  
<http://www.zyxel.no>

### ZyXEL Poland

Tel: +48 (22) 333 8250  
Fax: +48 (22) 333 8251  
Email: info@pl.zyxel.com  
<http://www.zyxel.pl>

### ZyXEL Russia

Tel: +7 (495) 542-8920  
Fax: +7 (495) 542-8925  
Email: sales@zyxel.ru  
<http://www.zyxel.ru>

### ZyXEL Slovakia

Tel: + 421 243 193 989  
Fax: + 421 243 193 990  
Email: info@sk.zyxel.com  
<http://www.zyxel.sk>

### ZyXEL Spain

Tel: +34 902 195 420  
Fax: +34 913 005 345  
Email: sales@zyxel.es  
<http://www.zyxel.es>

### ZyXEL Sweden A/S (Göteborg)

Tel: +46 (0) 31 744 77 00  
Fax: +46 (0) 31 744 77 01  
Email: sales@zyxel.se  
<http://www.zyxel.se>

### ZyXEL Sweden A/S (Stockholm)

Tel: +46 8 752 9600  
Fax: +46 8 752 9610  
Email: sales@zyxel.se  
<http://www.zyxel.se>

### ZyXEL Turkey A.S.

Tel: +90 212 222 55 22  
Fax: +90 212 220 25 26  
Email: bilgi@zyxel.com.tr  
<http://www.zyxel.com.tr>

### ZyXEL UK Ltd.

Tel: +44 (0) 1344 303044  
Fax: +44 (0) 1344 303034  
Email: sales@zyxel.co.uk  
<http://www.zyxel.co.uk>

### ZyXEL Ukraine

Tel: +380 44 494 49 31  
Fax: +380 44 494 49 32  
Email: sales@ua.zyxel.com  
<http://www.ua.zyxel.com>

## ■ The Americas

### ZyXEL Costa Rica

Tel: +506-2017878  
Fax: +506-2015098  
Email: sales@zyxel.co.cr  
<http://www.zyxel.co.cr>

### ZyXEL USA

#### North America Headquarters

Tel: +1-714-632-0882  
Fax: +1-714-632-0858  
Email: sales@zyxel.com  
<http://www.us.zyxel.com>

For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)

Copyright © 2009 ZyXEL Communications Corp. All rights reserved. ZyXEL, ZyXEL logo are registered trademarks of ZyXEL Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.

65-100-000043B

02/09